IN THE CLAIMS

Please cancel claims 3, 5, 31, 33 and 57-110 without prejudice, and amend claims 1, 4, 6, 7, 10-13, 16, 23, 29, 32, 34, 35, 38-41, 44 and 51 as follows:

1. (Currently Amended) A physiological characteristic monitor, comprising:

an input device capable of receiving a signal from a sensor, the signal being based on a sensed physiological characteristic value of a user; and

a processor for analyzing the received signal; wherein the processor determines a dynamic behavior of the physiological characteristic value; and

wherein the processor provides an observable indicator based upon the dynamic behavior of the physiological characteristic value so determined;

wherein analyzing the received signal and determining a dynamic behavior includes repeatedly measuring the physiological characteristic value to obtain a series of physiological characteristic values and analyzing a rate of change of the physiological characteristic value over time from the series of physiological characteristic values; and

wherein a slope of a line fit to the series of physiological characteristic values is calculated if a most recent of the series of physiological characteristic values is within a qualifying range.

- 2. (Original) The physiological characteristic monitor of claim 1, wherein the physiological characteristic value is a measure of the concentration of blood glucose in the user.
 - 3. (Cancelled)
- 4. (Currently Amended) The physiological characteristic monitor of claim [[3]]1, wherein each of the series of physiological characteristic values includes a smoothing filtered group of repeated physiological characteristic value readings.

- 5. (Cancelled)
- 6. (Currently Amended) The physiological characteristic monitor of claim [[5]]1, wherein the slope is negative.
- 7. (Currently Amended) The physiological characteristic monitor of claim [[3]]1, wherein the indicator includes a warning alarm; and wherein the warning alarm is responsive to the dynamic behavior profile of the physiological characteristic value.
- 8. (Original) The physiological characteristic monitor of claim 7, wherein the physiological characteristic value is a measure of the concentration of blood glucose in the user.
- 9. (Original) The physiological characteristic monitor of claim 8, wherein the warning alarm announces an anticipated glucose crash.
- 10. (Currently Amended) The physiological characteristic monitor of claim [[3]]1, wherein the series of physiological characteristic values spans a time period of approximately ten minutes.
- 11. (Currently Amended) The physiological characteristic monitor of claim [[5]]1, wherein the indicator includes an alarm warning of anticipated low glucose levels.
- 12. (Currently Amended) The physiological characteristic monitor of claim [[5]]1, wherein the series of physiological characteristic values spans a time period of approximately thirty minutes.
- 13. (Currently Amended) The physiological characteristic monitor of claim [[5]]1, wherein the indicator is provided if the slope is steeper than a threshold rate.
- 14. (Original) The physiological characteristic monitor of claim 13, wherein the threshold rate is approximately 3% per minute and the qualifying range is approximately 100 to 150 mg/dL.

- 15. (Original) The physiological characteristic monitor of claim 13, wherein the threshold rate is approximately 1% per minute and the qualifying range is approximately 60 to 140 mg/dL.
- 16. (Currently Amended) The physiological characteristic monitor of claim [[3]]1, wherein an anticipated physiological characteristic value is determined from an extrapolated curve based upon the series of physiological characteristic values.
- 17. (Original) The physiological characteristic monitor of claim 16, whercin the indicator includes a warning of an anticipated morning glucose incident.
- 18. (Original) The physiological characteristic monitor of claim 16, wherein the series of physiological characteristic values spans a time period of approximately one hour.
- 19. (Original) The physiological characteristic monitor of claim 16, wherein the extrapolated curve is determined from a slope of a line fit to the series of physiological characteristic values and an average of the series of physiological characteristic values.
- 20. (Original) The physiological characteristic monitor of claim 16, wherein the anticipated physiological characteristic value is determined approximately three hours before an anticipated wakeup time.
- 21. (Original) The physiological characteristic monitor of claim 16, wherein the indicator is provided if the anticipated value exceeds a qualifying range.
- 22. (Original) The physiological characteristic monitor of claim 21, wherein the qualifying range is approximately 60 mg/dL to 126 mg/dL.
- 23. (Currently Amended) The physiological characteristic monitor of claim 3 A physiological characteristic monitor, comprising:

an input device capable of receiving a signal from a sensor, the signal being based on a sensed physiological characteristic value of a user; and

a processor for analyzing the received signal; wherein the processor determines a dynamic behavior of the physiological characteristic value; and

wherein the processor provides an observable indicator based upon the dynamic behavior of the physiological characteristic value so determined;

wherein analyzing the received signal and determining a dynamic behavior includes repeatedly measuring the physiological characteristic value to obtain a series of physiological characteristic values and analyzing a rate of change of the physiological characteristic value over time from the series of physiological characteristic values; and,

wherein a slope of a line fit to the series of physiological characteristic values is calculated if a most recent of the series of physiological characteristic values exceeds a threshold value.

- 24. (Original) The physiological characteristic monitor of claim 23, wherein the slope is positive.
- 25. (Original) The physiological characteristic monitor of claim 23, wherein the indicator includes a warning of an anticipated hyperglycemic incident.
- 26. (Original) The physiological characteristic monitor of claim 23, wherein the series of physiological characteristic values spans a time period of approximately thirty minutes.
- 27. (Original) The physiological characteristic monitor of claim 23, wherein the indicator is provided if the slope is steeper than a threshold rate.
- 28. (Original) The physiological characteristic monitor of claim 27, wherein the threshold rate is approximately 3% per minute and the threshold value is approximately 180 mg/dL.

29. (Currently Amended) A method of monitoring a physiological characteristic value, comprising the steps of:

receiving a signal from a sensor, the signal being based on a physiological characteristic value of a user;

analyzing the received signal and determining a dynamic behavior of the physiological characteristic value; and

providing an indicator based upon the dynamic behavior of the physiological characteristic value;

wherein analyzing the received signal and determining a dynamic behavior includes measuring the physiological characteristic value to obtain a series of physiological characteristic values and analyzing a rate of change of the physiological characteristic over time value from the series of physiological characteristic values; and

wherein a slope of a line fit to the series of physiological characteristic values is calculated if a most recent of the series of physiological characteristic values is within a qualifying range.

- 30. (Original) The method of claim 29, wherein the physiological characteristic value is a glucose level.
 - 31. (Cancelled)
- 32. (Currently Amended) The method of claim [[31]]29, wherein each of the series of physiological characteristic values includes a smoothing filtered group of repeated physiological characteristic value readings.
 - 33. (Cancelled)
 - 34. (Currently Amended) The method of claim [[33]]29, wherein the slope is negative.

- 35. (Currently Amended) The method of claim [[31]]29, wherein the indicator includes a warning alarm; wherein the warning alarm is responsive to the dynamic behavior profile of the physiological characteristic value.
- 36. (Original) The method of claim 35, wherein the wherein the physiological characteristic value is a measure of the concentration of blood glucose in the user.
- (Original) The method of claim 36, wherein the warning alarm announces an anticipated glucose crash.
- 38. (Currently Amended) The method of claim [[33]]29, wherein the series of physiological characteristic values spans a time period of approximately ten minutes.
- 39. (Currently Amended) The method of claim [[33]]29, wherein the indicator includes a warning of anticipated low glucose.
- 40. (Currently Amended) The method of claim [[33]]29, wherein the series of physiological characteristic values spans a time period of approximately thirty minutes.
- 41. (Currently Amended) The method of claim [[33]]29, wherein the indicator is provided if the slope is steeper than a threshold rate.
- 42. (Original) The method of claim 41, wherein the threshold rate is approximately 3% per minute and the qualifying range is approximately 100 to 150 mg/dL.
- 43. (Original) The method of claim 41, wherein the threshold rate is approximately 1% per minute and the qualifying range is approximately 60 to 140 mg/dL.
- 44. (Currently Amended) The method of claim [[31]]29, wherein an anticipated physiological characteristic value is determined from an extrapolated curve based upon the series of physiological characteristic values.
- 45. (Original) The method of claim 44, wherein the indicator includes a warning of an anticipated morning glucose incident.

- 46. (Original) The method of claim 44, wherein the series of physiological characteristic values spans a time period of approximately one hour.
- 47. (Original) The method of claim 44, wherein the extrapolated curve is determined from a slope of a line fit to the series of physiological characteristic values and an average of the series of physiological characteristic values.
- 48. (Original) The method of claim 44, wherein the anticipated physiological characteristic value is determined approximately three hours before an anticipated wakeup time.
- 49. (Original) The method of claim 44, wherein the indicator is provided if the anticipated value exceeds a qualifying range.
- 50. (Original) The method of claim 49, wherein the qualifying range is approximately 60 mg/dL to 126 mg/dL.
- 51. (Currently Amended) The method of claim 31; A method of monitoring a physiological characteristic value, comprising the steps of:

receiving a signal from a sensor, the signal being based on a physiological characteristic value of a user;

analyzing the received signal and determining a dynamic behavior of the physiological characteristic value; and

providing an indicator based upon the dynamic behavior of the physiological characteristic value;

wherein analyzing the received signal and determining a dynamic behavior includes measuring the physiological characteristic value to obtain a series of physiological characteristic values and analyzing a rate of change of the physiological characteristic over time value from the series of physiological characteristic values; and

wherein a slope of a line fit to the series of physiological characteristic values is calculated if a most recent of the series of physiological characteristic values exceeds a threshold value.

- 52. (Original) The method of claim 51, wherein the slope is positive.
- 53. (Original) The method of claim 51, wherein the indicator includes a warning of an anticipated hyperglycemic incident.
- 54. (Original) The method of claim 51, wherein the series of physiological characteristic values spans a time period of approximately thirty minutes.
- 55. (Original) The method of claim 51, wherein the indicator is provided if the slope is steeper than a threshold rate.
- 56. (Original) The method of claim 55, wherein the threshold rate is approximately 3% per minute and the threshold value is approximately 180 mg/dL.
 - 57. 110. (Cancelled)